

ABSTRACT

A device and method for making full color cholesteric displays such as a narrow band and a broad band cholesteric display using high birefringence LC materials with color filtering processes. The invention includes positioning slant reflector(s) in the transmissive portion of the display to reflect backlight into reflection pixels. The LCD can display the same color images in both reflective and transmissive modes, maintain good readability in any ambient, has low power consumption, high brightness, full color capability and has a fabrication process that is compatible with conventional LCD fabrication.

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